

Art Unit: ***

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1. (Currently Amended) In an order server, a method for processing order messages, comprising the steps of:
 - receiving a first message of the order messages over a network, the first message comprising a first document organized in a first predefined format;
 - directing the first message to a first message processing module of a plurality of message processing modules, directing the first message further comprising parsing the first message to determine a message type that identifies an ordering function for the first message, and directing the first message to the first processing module based on the message type;
 - obtaining a first data set from the first message based on the first predefined format of the first document in response to the step of receiving the first message;
 - obtaining a second data set by processing the first data set of the first message in response to the step of obtaining the first data set; and
 - providing over the network the second data set in a second message comprising a second document organized in a second predefined format suitable for use by an ordering application.
2. (Original) The method of claim 1, wherein the order server is a vendor order server and the ordering application is a customer ordering application; and wherein:
 - the step of receiving the first message comprises receiving a first extended markup language document from the customer ordering application;
 - the step of obtaining the first data set comprises obtaining the first data set from a first predefined element of the first extended markup language document;
 - the step of obtaining the second data set comprises invoking an ordering function based on a message type defined in a second predefined element of the first extended markup language document to generate the second data set; and
 - the step of providing the second data set comprises providing the second data set in a third predefined element in a second extended markup language document to the customer ordering application.

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Art Unit: ***

3. ⁴⁵ The method of claim 1, wherein the step of receiving the first message comprises directing the first message to a first message processing module of a plurality of message processing modules.
- 5 4. The method of claim 3, wherein the step of directing the first message comprises parsing the first message to determine a message type that identifies an ordering function for the first message, and directing the first message to the first processing module based on the message type.
- 10 5. The method of claim 1, wherein the step of obtaining the second data set comprises interacting with an order database based on the first data set and based on a message type of the first message to generate the second data set.
- 15 6. The method of claim 1, wherein the step of obtaining the second data set comprises performing an ordering function based on the first data set and based on a message type of the first message to generate the second data set.
- 20 7. The method of claim 1, wherein the second predefined format is suitable for integration into a database maintained by the ordering application.
8. The method of claim 1, wherein the first document and the second document are extended markup language documents.
9. An order server for processing order messages, the order server comprising:
a memory;
an input/output interface in communication with the memory; and
a processor in communication with the memory and the input/output
5 interface, wherein the memory is encoded with logic instructions for an order message manager application that, when performed on the processor, cause the processor to form an order message manager that processes order messages by performing the operations of:
receiving through the input/output interface a first message of the
10 order messages over a network, the first message comprising a first document organized in a first predefined format;
obtaining a first data set from the first message based on the first predefined format of the first document in response to the step of receiving the first message;
15 obtaining a second data set by processing the first data set of the first message in response to the step of obtaining the first data set, and
providing through the input/output interface over the network the second data set in a second message comprising a second document organized in a second predefined format suitable for use by an ordering
20 application.

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Art Unit: ***

10. The order server of claim 9, wherein the order server is a vendor order server and the ordering application is a customer ordering application; and wherein the logic instructions for the order message manager application comprise further logic instructions, that, when performed on the processor, cause the order message manager to perform the operations of:
- 5 receiving a first extended markup language document from the customer ordering application;
- obtaining the first data set from a first predefined element of the first extended markup language document;
- 10 invoking an ordering function based on a message type defined in a second predefined element of the first extended markup language document to generate the second data set; and
- providing the second data set in a third predefined element in a second extended markup language document to the customer ordering application.
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11. The order server of claim 9, wherein the logic instructions for the order message manager application comprise further logic instructions, that, when performed on the processor, cause the order message manager to perform the operation of directing the first message to a first message processing module of a plurality of message processing modules.
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12. The order server of claim 11, wherein the logic instructions for the order message manager application comprise further logic instructions, that, when performed on the processor, cause the order message manager to perform the operation of
- 25 parsing the first message to determine a message type that identifies an ordering function for the first message, and directing the first message to the first processing module based on the message type.
13. The order server of claim 9, wherein the logic instructions for the order message manager application comprise further logic instructions, that, when performed on the processor, cause the order message manager to perform the operation of
- 3 interfacing with an order database based on the first data set and based on a message type of the first message to generate the second data set.
14. The order server of claim 9, wherein the logic instructions for the order message manager application comprise further logic instructions, that, when performed on the processor, cause the order message manager to perform the operation of
- 10 performing an ordering function based on the first data set and based on a message type of the first message to generate the second data set.
15. The order server of claim 9, wherein the second predefined format is suitable for integration into a database maintained by the ordering application.
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16. The order server of claim 9, wherein the first document and the second document are extended markup language documents.

Art Unit: ***

17. A computer program product that includes a computer readable medium having instructions stored thereon for processing order messages, such that the instructions, when carried out by a computer, cause the computer to perform the steps of:
- 5 receiving a first message of the order messages over a network, the first message comprising a first document organized in a first predefined format;
- obtaining a first data set from the first message based on the first predefined format of the first document in response to the step of receiving the first message;
- 10 obtaining a second data set by processing the first data set of the first message in response to the step of obtaining the first data set; and
- providing over the network the second data set in a second message comprising a second document organized in a second predefined format suitable for use by an ordering application.
- 15 18. An order server for processing order messages, the order server comprising,
- means for receiving a first message of the order messages over a network, the first message comprising a first document organized in a first predefined format;
- 20 means for obtaining a first data set from the first message based on the first predefined format of the first document in response to the step of receiving the first message;
- means for obtaining a second data set by processing the first data set of the first message in response to the step of obtaining the first data set; and
- 25 means for providing over the network the second data set in a second message comprising a second document organized in a second predefined format suitable for use by an ordering application.
- 19 (Added) In an order server, a method for processing order messages, comprising the steps of:
- receiving a first message of the order messages over a network, the first message comprising a first document organized in a first predefined format;
- obtaining a first data set from the first message based on the first predefined format of the first document in response to the step of receiving the first message;
- obtaining a second data set by processing the first data set of the first message in response to the step of obtaining the first data set; and
- providing over the network the second data set in a second message comprising a second document organized in a second predefined format suitable for use by an ordering application, the first and second predefined formats corresponding to the same order being processed by the order server.
- 20 (Added) The method of claim 19, further comprising directing the first message to a first message processing module of a plurality of message processing modules; wherein directing the first message further comprises parsing the first message to determine a message type that identifies an ordering function for the first message, and directing the first message to the first processing module based on the message type.
- 21 (Added) The method of claim 20 wherein the message type is indicative of the first and second predetermined formats.

Art Unit: ***

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22. (Added) The method of claim 21 wherein the predetermined formats are defined in an XML document.

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(Currently Amended) In a vendor order server, a method of processing order messages by a predetermined sequence of instructions tangibly embodied on an instruction medium executable by a processor responsive

to the instructions via an ordering network from a customer ordering application comprising:

defining an order message format having order data elements and order type elements, the order message format adaptable to a plurality of order type elements, each order type element corresponding to a different ordering application;

defining an order response format corresponding to a response expected by the customer ordering application, the order response format corresponding to the ordering application;

receiving, via the ordering network, an order message in the order message format, the order message having an order data set in the order data elements and an order type in the order type element;

parsing an order type from the order type element to identify an order type, the order type indicative of an ordering function performable by at least one of a plurality of order processing modules;

selectively invoking, based on the parsed order type, a particular one of the plurality of order processing modules corresponding to the order type, the invoking operable to route the order data set in the received order message to the invoked order processing module, identifying the order type including parsing according to the predetermined format to identify tagged attributes indicative of the order types, and processing by the order server further comprises indexing a mapping of order types to order processing modules;

interacting with an order database coupled to the order server based on the message type, the order database responsive to the order processing module for transferring data corresponding to the parsed order type;

processing, based on the interacting, the routed order data set by the order processing module to generate an order response message in the order response format; and

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Art Unit: ***

transmitting the order response message to the ordering application, the order response format corresponding to an application database maintained by the ordering application, the defined order message format and order response format accessible to the ordering application and the order server from predetermined types indicative of a predetermined format; processing further comprising processing in an automated manner that maps data items from the response message at the application database according to application instructions.

24. (Previously Presented) The method of claim 23 further comprising receiving the order response message by the ordering application and processing the order response message by employing the predetermined types in an automated manner according to application instructions.
25. (Previously Presented) The method of claim 24 wherein defining further comprises defining the order message format and order response format in a predetermined set of markup language definitions commonly accessible to both the order server and the user application.
26. (Previously Presented) The method of claim 25 wherein receiving further comprises receiving the order response message in the order response format recognizable via the commonly accessible markup definitions that define the predetermined format.
27. (Currently Amended) The method of claim 26 wherein processing further comprises processing in an automated manner that maps data items from the response message at the application database according to application instructions without manual reentry of data items via an interactive interface.
28. (Previously Presented) The method of claim 27 wherein the ordering application is conversant in XML, and the order response format is an XML document type indicative of an XML element expected by the ordering application.
29. (Previously Presented) The method of claim 28 wherein identifying the message type involves parsing according to the predetermined format to identify tagged attributes indicative of the message types and processing by the order server further comprises indexing a mapping of order types to order processing modules.

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Art Unit: ***

30. (Previously Presented) The method of claim 28 wherein the order message format is an XML document definition and the order data elements and order type elements are XML tags in the XML document definition, wherein the order response format is operable for integration into an ordering database responsive to the order application.

31. (Currently Amended) In a vendor order server, a computer program product having a computer readable medium operable to store computer program logic embodied in a set of instructions tangible embodied in computer program code encoded thereon and executable by a processor responsive to the set of instructions processing order messages via an ordering network from a customer ordering application comprising:

defining an order message format having order data elements and order type elements;

defining an order response format corresponding to a response expected by the customer ordering application, defining further comprising defining the order message format and order response format in a predetermined set of markup language definitions commonly accessible to both the order server and the user application;

receiving, via the ordering network, an order message in the order message format, the order message having an order data set in the order data elements and an order type in the order type element, receiving further comprising receiving the order response message by the ordering application and processing the order response message by employing the predetermined types in an automated manner according to application instructions;

parsing an order type from the order type element to identify an order type, the order type indicative of an ordering function performable by at least one of a plurality of order processing modules;

32. The method of claim 32 wherein the order message and the order response message correspond to a common order transaction between a particular customer and supplier.

34. (Previously Presented) The method of claim 33 wherein the order message and the order response message each have a sender and recipient, such that the senders and recipients of the order message and the order response message are limited to the customer and supplier of the order transaction, and the order message and order response message are not replicated to a plurality of recipients.

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